

Index

[] (square brackets), 99

A

abs() function, 339
absolute paths, 29
adjacent items, grouping, 85–90
adjust-date-to-timezone() function, 340
adjust-dateTime-to-timezone() function, 340
adjust-time-to-timezone() function, 340
analyzers, 29–30
arithmetic operators, 33
Associating Style Sheets with XML Documents Version 1.0, 377
Atom 1.0 schema, 14–16
Atom-Feed tree, 131–132
Atom Publishing Protocol, 377
Atom Syndication Format, 377
atomic values, 27
attribute groups
 generic element attributes, 304–305
 validation attributes, 305–306
 version attributes, 305
attribute sets, 64–69
attribute tokens, formatting, 104
attribute value template, 381
attributes
 case study, 202
 encoding, 5
 format, 128
 groups, 264
 method, 5
 specifying, 18
 use-attribute-sets, 64
 validating, 194–195

 vendor extensions, 257

avg() function, 340
axes, 30–32
axis step, 381

B

base-uri() function, 340–341
boolean() function, 341
Boolean expressions, 34
browsers, XML documents to Web pages, 2–11
built-in rules, templates and, 3

C

calling, templates, 49
capturing content, 69
Cascading Style Sheets, level 2 CSS2 Specification, 377
case study
 block elements, 202–203
 common attributes, 202
 inline elements, 203
 link container elements, 205–206
 link module
 function module, 223
 link parameters, 220–222
 link verification, 208–209
 metadata schemas, 209–210
 resource metadata, 210–214
 property elements, 206–208
 quick-reference schema, 204–209
 reference stylesheets, 217–219
 schema overview, 201–202
 site building, 227–228
 glossary page, 233–234
 landing page, 233–234

case study (continued)

case study (continued)

- reference page generation, 228–233
- sitemap creation, 234–237
- subject metadata, 214–216
- term module, 223–224
 - inline terms, 226–227
- term parameters, 225–226

CDATA, processing, 71

ceiling() function, 341

<channel> element, 14, 18

character map, 381

Character Model for the World Wide

Web 1.0: Normalization, 377

chunking source files, 136–138

CLI (command-line interface), 13

codepoints, 96

codepoints-equal() function, 97, 342

codepoints-to-string() function, 96, 342

collating sequences, 80

collation, 381

collection() function, 126–127, 342–343

collections, loading, 127

command-line interface, 13–14

common values, grouping, 84–85

compare() function, 97, 343

comparing strings, 97

concat() function, 97, 343

concatenation

functions, 35–36

strings, 97

conditional processing, 61–64

conditional validation, 195

conditions

ending, 93

starting, 91–93

constructor function, 381

contains() function, 98

content

capturing, 69

copying, 9–11

source content, selecting, 8

context

changing, 127

monitoring, 69–70

setting, 127

context item, 381

context position, 381

contextual dates, 37–38, 109

controlling processing, data model, 261–262

converting numbers, 107–108

copying

content, 9–11

deep copy, 10

shallow copy, 9

count() function, 71, 343–344

CSV to XML conversion, 148–150

current() function, 69, 307

current-date() function, 344

current-dateTime() function, 344

current group, 381

current-group() function, 307

current grouping key, 382

current-grouping-key() function, 307

current-time() function, 344

D

data() function, 344

data model, 259–260

parameters, 261

variables, 261

data-type attribute, 79

datatypes, 79–80, 264

ID datatypes, 159–160

dates

combining values, 111–112

contextual, 37–38, 109

converting values, 111–112

Date and Time Formats, 377

durations, 38, 112

formatting, 38, 109–111

picture strings, 110

tokens, 110–111

dateTime() function, 344–345

day-from-date() function, 345

day-from-dateTime() function, 345

days-from-duration() function, 345

- DCMI metadata terms**, 377
 - debugging, XSLT**, 181–184
 - commenting output, 187–188
 - messages, 186–187
 - profiling, 184–185
 - XHTML output verification, 185–186
 - declaration**, 263, 382
 - deep copy**, 10
 - deep-equal() function**, 346
 - default-collation() function**, 346
 - delimited text, converting from XML**, 144–146
 - distinct-values() function**, 346
 - DITA (Darwin Information Typing Architecture)**, 2
 - <div> element**, 81
 - doc() function**, 125–126, 347
 - doc-available() function**, 347
 - document() function**, 123–125, 307–308
 - document-uri() function**, 347
 - documentation, stylesheets**, 195–199
 - documents, output**, 127–138
 - DTDs (Document Type Definitions)**,
 - datatypes**
 - ID, 159–160
 - IDREF, 159–160
 - IDREFS, 159–160
 - duplicates, collation and**, 96
- E**
- element-available() function**, 308
 - elements**
 - attributes, 264
 - case study, 202–203
 - datatypes, 264
 - declarations, 263
 - entry elements, 20–22
 - feed elements, 19
 - functions, 264
 - instructions, 263
 - literal result elements, 7
 - validating, 194–195
 - empty() function**, 347–348
 - empty sequence**, 382
 - encode-for-uri() function**, 348
 - encoding attribute**, 5
 - ending conditions**, 93
 - ends-with() function**, 98, 348
 - entry elements**, 20–22
 - error() function**, 188, 348–349
 - escape-html-uri() function**, 349
 - exactly-one() function**, 349
 - <examples> element**, 70
 - Excel, XML data in**, 156–157
 - exists() function**, 350
 - expressions**, 99–100
 - anchoring, 99
 - filter expressions, 382
 - flags, 99–100
 - matching, 100
 - normalization, 101
 - primary expressions, 383
 - replacing, 101
 - square brackets in, 99
 - subexpressions, 99
 - tokenizing, 100
 - Unicode values, 101–102
 - URIs, 102–103
 - whitespace, 101
 - EXSDL function library**, 255–256
 - EXSLT**, 379
 - EXSLT modules**, 256
 - Extensible Markup Language (XML) 1.0 (Fifth Edition)**, 378
 - extension functions**, 382
 - calling, 254–255
 - extensions**
 - function libraries, 255–256
 - stylesheet functions, 253–255
 - user-defined, 257
 - vendor extensions, 256–257
- F**
- false() function**, 350
 - family tree**, 171–179
 - <feed> element**, 14, 16
 - feed elements**, 19
 - feed updates, preparing**, 129–136

file extensions, .xsl

file extensions, .xsl, 3

files, source files, chunking, 136–138

filter expression, 382

flags, expressions, 99–100

floor() function, 350

format attribute, 128

format-date() function, 109, 308–309

format-dateTime() function, 109,
308–309

format-number() function, 309

format-time() function, 109, 308–309

formatting

attribute tokens, 104

dates, 38

FreeCEN project, 147

function-available() function, 310

function libraries

EXSLT, 255–256

FunctX, 256

function module, case study, 223

function parameters, 382

functions, 306

abs(), 339

adjust-date-to-timezone(), 340

adjust-dateTime-to-timezone(), 340

adjust-time-to-timezone(), 340

avg(), 340

base-uri(), 340–341

boolean(), 341

ceiling(), 341

codepoints-equal(), 97, 342

codepoints-to-string(), 96, 342

collection(), 126–127, 342–343

compare(), 97, 343

concat(), 97, 343

contains(), 98

count(), 71, 343–344

current(), 69, 307

current-date(), 344

current-dateTime(), 344

current-group(), 307

current-grouping-key(), 307

current-time(), 344

data(), 344

dates

contextual, 37–38

durations, 38

formatting, 38

dateTime(), 344–345

day-from-date(), 345

day-from-dateTime(), 345

days-from-duration(), 345

deep-equal(), 346

default-collation(), 346

distinct-values(), 346

doc(), 125–126, 347

doc-available(), 347

document(), 123–125, 307–308

document-uri(), 347

element-available(), 308

elements, 264

empty(), 347–348

encode-for-uri(), 348

ends-with(), 98, 348

error(), 188, 348–349

escape-html-uri(), 349

exactly-one(), 349

exists(), 350

extension, 382

calling, 254–255

false(), 350

floor(), 350

format-date(), 109, 308–309

format-dateTime(), 109, 308–309

format-number(), 309

format-time(), 109, 308–309

function-available(), 310

generate-id(), 165–167, 310

hours-from-dateTime(), 351

hours-from-time(), 351

id(), 160–162, 351

idref(), 351–352

implicit-timezone(), 352, 353

in-scope-prefixes(), 353

index-of(), 352

insert-before(), 353

iri-to-uri(), 354

key(), 162, 163–165, 310–311

- lang(), 354
 - last(), 69, 354
 - local-name(), 355
 - local-name-from-QName(), 355
 - lower-case(), 355
 - matches(), 100, 356
 - max(), 356
 - min(), 356
 - minutes-from-dateTime(), 356–357
 - minutes-from-duration(), 357
 - minutes-from-time(), 356–357
 - month-from-date(), 357, 358
 - month-from-dateTime(), 357, 358
 - months-from-duration, 358
 - name(), 358–359
 - namespace-uri(), 359
 - namespace-uri-for-prefix(), 359
 - namespace-uri-from-QName(), 360
 - nilled(), 360
 - nodes, documents, 38–39
 - normalize-unicode(), 360
 - not(), 360–361
 - number(), 361
 - numbers, 39
 - one-or-more(), 361
 - position(), 69, 361–362
 - prefix-from-QName(), 362
 - QName(), 362
 - regex-group(), 311
 - remove(), 362–363
 - replace(), 101, 363
 - resolve-QName(), 364
 - resolve-uri(), 363
 - reverse(), 364
 - root(), 364–365
 - round(), 365
 - round-half-to-even(), 365
 - seconds-from-dateTime(), 366
 - seconds-from-duration(), 366
 - seconds-from-time(), 366
 - starts-with(), 98, 366–367
 - static-base-uri(), 367
 - string(), 96, 367
 - string-join(), 97, 367–368
 - string-length(), 96, 368
 - string-to-codepoints(), 96, 368
 - strings, 96
 - concatenation, 35–36
 - substrings, 36–37
 - stylesheets, 253–255, 384
 - subsequence(), 369
 - substring(), 369
 - substring-after(), 98, 369–370
 - substring-before(), 98, 370
 - sum(), 370–371
 - system-property(), 311–312
 - timezone-from-date(), 371
 - timezone-from-dateTime(), 371
 - timezone-from-time(), 371
 - tokenize(), 100, 371–372
 - trace(), 372
 - translate(), 98, 372
 - true(), 373
 - type-available(), 312
 - unordered(), 373
 - unparsed-entity-public-id(), 313
 - unparsed-entity-uri(), 313
 - unparsed-text(), 146, 312–313
 - unparsed-text-available(), 312–313
 - upper-case(), 373
 - vendor extensions, 256
 - year-from-date(), 374
 - year-from-dateTime(), 374
 - years-from-duration(), 374
 - zero-or-one(), 374–375
- FunctX function library**, 254–255, 256
- FunctX XSLT Functions**, 379
- G**
- GEDCOM XML**, 170–179
 - general operators**, 34
 - generate-id() function**, 165–167, 310
 - generating numbers**, 103–107
 - generic element attributes**, 304–305
 - global parameters**, 55–57, 116
 - imported stylesheets, 119–120
 - global variables**, 43, 382

glossary, creating

glossary, creating, 225–226
glossary terms, 124
GMT (Greenwich Mean Time), 113
group-adjacent attribute, 85, 87
group-ending-with attribute, 93
group-starting-with attribute, 91
grouping, 83–84
 adjacent items, 85–90
 common values, 84–85
 tabulation, 87–88
grouping keys, 382
groups
 attributes, 264
 current, 381

H

hours-from-dateTime() function, 351
hours-from-time() function, 351
href pseudo-attribute, 3
HyperText Markup Language (HTML), 378

I

id() function, 160–162, 351
ID datatypes, 159–160
identifiers, generating
 GEDCOM XML, 170–179
 indexing lines, 165–170
idref() function, 351–352
IDREF datatype, 159–160
IDREFS datatype, 159–160
implicit-timezone() function, 352, 353
import precedence, 382
in-scope-prefixes() function, 353
index-of() function, 352
indexing lines, 165–170
inline terms, 226–227
insert-before() function, 353
instructions, 263, 382
 vendor extensions, 256
invoking template rules, 45–46
IRI (International Resource Identifiers), 102

iri-to-uri() function, 354
ISO Schematron, 378
<item> element, 18
item listings, 19–20
iteration, 64–70

J

Jeni's XSLT Pages, 379

K

key() function, 162, 163–165, 310–311
keys, 162–165
 current grouping key, 382
 grouping keys, 382
 multiple values, 164–165

L

lang() function, 354
language settings, sorts, 80–81
languages, 111
last() function, 69, 354
Lexical QName, 382
lines
 indexing, 165–170
 numbering, 105–106
<link> element, 19
link module, link parameters
 labeling headings, 220–221
 scheme selection, 221–222
links, case study
 container elements, 205–206
 function module, 223
 link parameters, 220–222
 verification, 208–209
literal result elements, 7, 382
local-name() function, 355
local-name-from-QName() function, 355
local variables, 43, 382
location expressions, 29
lower-case() function, 355

M

main stylesheet module, 115
main template, 6–7
matches() function, 100, 356
matching expressions, 100
max() function, 356
messages, XSLT debugging, 186–187
metadata, DCMI metadata terms, 377
metadata schemas, case study,
 209–210
 resource metadata, 210–211
 authors and contributors, 212–213
 collection, 211–212
 content, 214
 dates, 213–214
 identifiers, 212
 language values, 212
method attribute, 5
methods, output, defining, 4–6
min() function, 356
minutes-from-dateTime() function,
 356–357
minutes-from-duration() function, 357
minutes-from-time() function, 356–357
modes, 382
 templates, 46–48
modular stylesheets
 creating modules, 116–118
 customization layer, 119
 datetime module, 118–119
 global parameters, 116
 imported, 119–123
 global parameters, 119–120
 including modules, 116–119
 main stylesheet module, 115
 menus, 116
 overlay layer, 119
 parameterized content, 116
 principal stylesheet module, 115
 styling information, 116
month-from-date() function, 357, 358
month-from-dateTime() function, 357,
 358
months-from-duration function, 358

multiple choices, 62–64
multiple-level numbers, 106–107

N

name() function, 358–359
name tests, nodes, 32
named templates, 44, 49–50, 382
namespace-uri() function, 359
namespace-uri-for-prefix() function, 359
namespace-uri-from-QName() function,
 360
namespaces, xsl, 4
nilled() function, 360
nodes, 25–26, 382
 documents and
 counting, 39
 external, 39
 position, 39
 properties, 38
 node sets, combining, 34–35
 properties, 26–27
 tests
 name tests, 32
 type tests, 32
 types, 26
normalization
 Character Model for the World Wide
 Web 1.0: Normalization, 377
 expressions, 101
normalize-unicode() function, 360
not() function, 360–361
number() function, 361
numbering lines, 105–106
numbers
 generating, 103–107
 multiple-level, 106–107
 single-level, 104–106
 source
 converting numbers, 107–108
 declaring format, 108–109
numeric functions, 39
numeric sort, 79–80

one-or-more() function

O

one-or-more() function, 361

operators

arithmetic, 33

Boolean expressions, 34

general, 34

node sets, combining, 34–35

value comparison, 33–34

output documents, 127–128

feed update, 129–136

splitting, 136–138

output methods, defining, 4–6

outputs, data model, 262

Oxygen IDE, 29–30

P

P5: Guidelines for Electronic Text

Encoding and Interchange, 378

parameterized content, 116

parameters

data model, 261

definition, 383

function parameters, 382

functions and, 43

global, 43, 55–57

imported stylesheets, 119–120

passing, 122

template parameters, 57–59

templates and, 43

term parameters, 225–226

tunnel parameters, 59

<xsl:param>, 55–57

parsers, whitespace, 142

passing parameters, 122

passing values to templates, 58–59

path expressions, 28–35, 383

patterns, 45, 383

percent encoding, 102

picture strings, 110, 383

population, 83, 383

position() function, 69, 361–362

predicates, 33, 383

prefix-from-QName() function, 362

preserving whitespace, 143

primary expressions, 383

principal stylesheet module, 115

priorities, 383

templates, 48–49

profiling, debugging XSLT, 184–185

<properties> element, 67

property elements, case study,

206–208

pseudo-attributes, href, 3

Q

QName, 383

QName() function, 362

R

RDF Site Summary (RSS), 378

reference stylesheets, case study,

217–219

regex-group() function, 311

regular expressions (regex), 99

anchoring, 99

remove() function, 362–363

replace() function, 101, 363

replacing expressions, 101

resolve-QName() function, 364

resolve-uri() function, 363

result trees, 383

reverse() function, 364

RFC 4151 The “tag” URI Scheme,

378

root() function, 364–365

root element stylesheet, 3–4

round() function, 365

round-half-to-even() function, 365

RSS 2.0 Specification, 378

RSS (RDF Site Summary), 14–16, 378

rules

importing, activating, 121–122

template rules, 44–45, 261

built-in, 49

invoking, 45–46

modes, 46–48

parameters, 45
 patterns, 45
 sequence constructor, 45

S

Saxon CLI, 13, 126

Saxonica: XSLT and XQuery Processing,
 379

schema, XSLT 2.0 stylesheets, 315–336

schema-aware processors, 189–195

seconds-from-dateTime() function, 366

seconds-from-duration() function, 366

seconds-from-time() function, 366

select attribute, XPath expression, 76

sequence constructor, 383

sequences, 27, 383

serialization, 383

data model, 262

**serialization parameters, vendor
 extensions**, 257

shallow copy, 9

single-level numbers, 104–106

site building, case study, 227–228

glossary page, 233–234

landing page, 233–234

reference page generation, 228–230

content section, 232

function reference pages, 232–233

navigation tabs, 230–231

table of contents, 231–232

sitemap creation, 234–237

sort key components, 75, 383

sort key specifications, 75, 383

sorting, 75–77

datatypes, 79–80

language settings, 80–81

numeric sorts, 79–80

<xsl:perform-sort>, 81–83

source content, selecting, 8

source documents

document() function, 123–125

validation, 193–194

source elements, processing, 8–9

source files, chunking, 136–138

source numbers, formatting

converting numbers, 107–108

declaring format, 108–109

source tree, 383

splitting documents, 136–138

starting conditions, 91–93

starts-with() function, 98, 366–367

static-base-uri() function, 367

step expressions, 29

steps, 383

string() function, 96, 367

string-join() function, 97, 367–368

string-length() function, 96, 368

string-to-codepoints() function, 96, 368

strings

codepoints, 96

collating, 95–96

comparison, 97

concatenation, 97

expressions, 99–100

functions, 96

picture strings, 383

substrings, 36–37, 98

stripping whitespace, 142–143

stylesheet functions, 384

stylesheet modules, 384

stylesheet parameters, 384

stylesheets, 384

Associating Style Sheets with XML

Documents Version 1.0, 377

Cascading Style Sheets, level 2 CSS2

Specification, 377

documentation, 195–199

functions, 253–255

imported, 119–123

global parameters, 119–120

modular, 115–123

creating modules, 116–118

customization layer, 119

datetime module, 118–119

global parameters, 116

imported, 119–123

including modules, 116–119

main stylesheet module, 115

stylesheets (*continued*)

stylesheets (*continued*)

- menus, 116
 - overlay layer, 119
 - parameterized content, 116
 - principal stylesheet module, 115
 - styling information, 116
 - reference, case study, 217–219
 - root element stylesheet, 3–4
 - schema, 315–336
 - XML data to XML, 17–23
- subexpressions**, 99
- subject metadata case study**, 214–216
- subsequence() function**, 369
- substring() function**, 369
- substring-after() function**, 98, 369–370
- substring-before() function**, 98, 370
- substrings**, 98
- sum() function**, 370–371
- system-property() function**, 311–312

T

- Tag URI**, 378
- template parameters**, 57–59, 384
- template rules**, 384
- templates**, 43, 384
- attribute value template, 381
 - built-in rules, 3
 - calling, 49
 - importing, 120–121
 - main, 6–7
 - match attribute, 44
 - name attribute, 44
 - named, 44, 49–50, 382
 - passing values to, 58–59
 - priorities, 48–49
 - priority, 123
 - rules, 44–45, 261
 - built-in, 49
 - invoking, 45–46
 - modes, 46–48
 - parameters, 45
 - patterns, 45
 - sequence constructor, 45
 - stylesheets, 44

temporary trees, 384

- term module, case study**, 223–224
- inline terms, 226–227
 - term parameters, 225–226
- text**
- converting from XML, 144–146
 - converting to XML, loading unparsed text, 146
- time**
- Date and Time Formats, 377
 - durations, 112
 - formatting, picture strings, 110
 - GMT (Greenwich Mean Time), 113
 - timezones, 112–113
 - UTC (Coordinates Universal Time), 113
- timezone-from-date() function**, 371
- timezone-from-dateTime() function**, 371
- timezone-from-time() function**, 371
- timezones**, 112–113
- tokenize() function**, 100, 371–372
- tokenizing expressions**, 100
- trace() function**, 372
- transform**
- creating, 3–4
 - locally, 11–14
- transformations, configuration**, 11–12
- transforming**
- parsing inputs, 260
 - template rules, 261
- translate() function**, 98, 372
- trees**
- Atom-Feed, 131–132
 - result trees, 383
 - source tree, 383
 - temporary, 129–130, 384
- true() function**, 373
- tunnel parameters**, 59, 384
- type-available() function**, 312
- type definitions**, 306
- importing, 189–190
- type tests, nodes**, 32
- types, XSLT, validation**, 188–189

U

- Unicode Normalization Forms**, 378
- Unicode values, expressions**, 101–102
- Uniform Resource Identifiers (URIs)**, 123–124, 378
 - expressions, 102–103
- unordered() function**, 373
- unparsed-entity-public-id() function**, 313
- unparsed-entity-uri() function**, 313
- unparsed-text() function**, 146, 312–313
- unparsed-text-available() function**, 312–313
- upper-case() function**, 373
- use-attribute-sets attribute**, 64
- user-defined extensions**, 257
- user-defined types, specifying**, 192–193
- UTC (Coordinates Universal Time)**, 113

V

- validation**
 - attributes, 194–195
 - conditional, 195
 - elements, 194–195
 - source documents, 193–194
 - XSLT types, 188–189
- validation attributes**, 305–306
- value comparison operators**, 33–34
- values, grouping**, 84–85
- variable refence**, 384
- variables**, 384
 - data model, 261
 - global, 43, 382
 - local, 43, 382
 - select attribute, 50
 - using, 51–55
 - <xsl:variable>, 50
- vendor extensions**
 - attributes, 257
 - EXSLT modules, 256
 - functions, 256
 - instructions, 256
 - serialization parameters, 257
- version attributes**, 305

W

- W3C document license**, 336–337
- W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes**, 378
- whitespace**
 - controlling, 141–144
 - in expressions, 101
 - preserving, 143
 - stripping, 142–143
 - <xsl:text>, 143–144
- whitespace text node**, 384

X

- XHTML, output**
 - validation, 190–192
 - verification, 185–186
- XHTML 1.0 (Second Edition)**, 378
- XHTML Role Attribute Module**, 379
- XHTML Vocabulary Namespace**, 379
- XML declarations**, 4
 - output methods, 5
- XML (Extensible Markup Language)**
 - code processing, 70–71
 - converting from text, loading unparsed text, 146
 - converting to delimited text, 144–146
 - data in Excel, 156–157
 - documents
 - Associating Style Sheets with XML Documents, 377
 - transforming to Web page, 1–14
 - GEDCOM XML, 170–179
 - input, validation, 194
 - transforming XML data to XML, 14–23
- XML maps**, 154–156
- xml:id Version 1.0**, 379
- XPath**
 - alternatives, 125–127
 - conditional tests, 64
 - functions, strings, 35–37
 - nodes, 25–26
 - properties, 26–27
 - types, 26

XQuery 1.0 and XPath 2.0 Functions and Operators

XQuery 1.0 and XPath 2.0 Functions and Operators, 379

.xsl file extension, 3

XSL List, 380

XSL Transformations (XSLT) Version 2.0, 379

<xsl:analyze-string>, 146, 264–265
<xsl:apply-imports>, 121, 265
<xsl:apply-templates>, 45–46, 265–266
<xsl:attribute>, 266–267
<xsl:attribute-set>, 64, 267–268
XSLT schema definition, 65
<xsl:call-template>, 67, 268–269
<xsl:character-map>, 269
<xsl:choose>, 61, 62–64, 269
<xsl:comment>, 187–188, 269
<xsl:copy>, 9, 271
<xsl:copy-of>, 271–272
<xsl:copy-of> element, 19
<xsl:decimal-format>, 272–273
<xsl:declaration>, 274
<xsl:doc>, 197
<xsl:element>, 274–275
<xsl:fallback>, 275
<xsl:for-each>, 64, 276
<xsl:for-each-group>, 65, 83, 219, 276–277
<xsl:function>, 253, 277–278
<xsl:if>, 61, 278–279
test attribute, 61–62
<xsl:import>, 279
<xsl:import-schema>, 189, 280
<xsl:include>, 116, 281
<xsl:instruction>, 281–282
<xsl:key>, 162, 282
<xsl:matching-substring>, 283
<xsl:message>, 186, 283–284
<xsl:namespace>, 284–285
<xsl:namespace-alias>, 285
<xsl:next-match>, 122–123, 285–286
<xsl:non-matching-substring>, 286
<xsl:number>, 103, 286–288
<xsl:otherwise>, 63, 288
<xsl:output>, 128, 288–291

<xsl:output-character>, 291
<xsl:param>, 55–57, 254, 291–292
<xsl:perform-sort>, 81–83, 292–293
<xsl:preserve-space>, 143, 293
<xsl:processing-instructions>, 294
<xsl:result-document>, 127, 129, 294–296
<xsl:sequence>, 297
<xsl:sort>, 75, 297–298
<xsl:strip-space>, 142, 299
<xsl:stylesheet>, 12–13, 116, 254, 299–300

XSLT

alternatives to, 153–154
XML maps, 154–156
debugging, 181–184
commenting output, 187–188
messages, 186–187
profiling, 184–185
XHTML output verification, 185–186
output, validating, 190–192
types, 306

XSLT 2.0 and XQuery 1.0 Serialization, 379

XSLT 2.0 Schema, 379

XSLT elements

<xsl:analyze-string>, 264–265
<xsl:apply-imports>, 265
<xsl:apply-templates>, 265–266
<xsl:attribute>, 266–267
<xsl:attribute-set>, 267–268
<xsl:call-template>, 268–269
<xsl:character-map>, 269
<xsl:choose>, 270
<xsl:comment>, 270
<xsl:copy>, 271
<xsl:copy-of>, 271–272
<xsl:decimal-format>, 272–273
<xsl:declaration>, 274
<xsl:document>, 274
<xsl:element>, 274–275
<xsl:fallback>, 275
<xsl:for-each>, 276
<xsl:for-each-group>, 276–277

zero-or-one() function

- <xsl:function>, 277–278
 - <xsl:if>, 278–279
 - <xsl:import>, 279
 - <xsl:import-schema>, 280
 - <xsl:include>, 281
 - <xsl:instruction>, 281–282
 - <xsl:key>, 282
 - <xsl:matching-substring>, 283
 - <xsl:message>, 283–284
 - <xsl:namespace>, 284–285
 - <xsl:namespace-alias>, 285
 - <xsl:next-match>, 285–286
 - <xsl:non-matching-substring>, 286
 - <xsl:number>, 286–288
 - <xsl:otherwise>, 288
 - <xsl:output>, 288–291
 - <xsl:output-character>, 291
 - <xsl:param>, 291–292
 - <xsl:perform-sort>, 292–293
 - <xsl:preserve-space>, 293
 - <xsl:processing-instruction>, 294
 - <xsl:result-document>, 294–296
 - <xsl:sequence>, 297
 - <xsl:sort>, 297–298
 - <xsl:strip-space>, 299
 - <xsl:stylesheet>, 299–300
 - <xsl:template>, 300–301
 - <xsl:text>, 301
 - <xsl:transform>, 301–302
 - <xsl:value-of>, 302–303
 - <xsl:variable>, 303
 - <xsl:with-param>, 304
- XSLTdoc**, 196–199
- XSLTdoc: A Code Documentation Tool for XSLT**, 380
- <xsl:template>, 6–7, 43, 300–301
 - <xsl:text>, 143–144, 301
 - <xsl:transform>, 301–302
 - <xsl:value-of>, 8, 19, 302–303
 - <xsl:variable>, 43, 50, 303
 - <xsl:when>, 63
- Y**
- year-from-date() function**, 374
 - year-from-dateTime() function**, 374
 - years-from-duration() function**, 374
- Z**
- zero-or-one() function**, 374–375